## **Attachment O: Discharge Information**

(must be completed and submitted for each discharge)

Applicant Name:

(as indicated on the Permit Application Transmittal Form)

Existing Permit Number (if applicable):

Complete this attachment for *each* discharge and label each discharge consecutively starting with serial number 101 for discharges to a surface water, 201 for discharges to a POTW, and 301 for discharges to ground water. Attachment O is *not* required for applications to: discharge from land treatment non-point source discharge systems (including septic tank leachfield systems); discharge from landfills; discharge from agricultural activities or concentrated animal feeding operations; or discharge from concentrated aquatic animal production facilities.

### Part A: General Discharge Information

| D: | Discharge Carial Number  |                       |
|----|--|-----------------------|
| וט | Discharge Serial Number:   |                       |
| 1. | 1. For discharges to a surface water only:   |                       |
|    | a. The discharge enters the surface water (check one):   |                       |
|    | ☐ directly   |                       |
|    | through a municipal storm sewer  |                       |
|    | through other drainage systems (e.g., swale) Please specify below:   |                       |
|    | b. Name of surface water body the discharge first enters:  |                       |
|    | c. Surface water classification of the above listed water body:  |                       |
|    | Present: Future:   |                       |
| 2. | 2. For discharges to a POTW only:  |                       |
|    | a. The discharge enters the POTW (check one):  |                       |
|    | directly hauled  |                       |
|    | ☐ through a sanitary sewer or a combined sewer   |                       |
|    | b. Name of POTW the discharge first enters:  |                       |
|    | c. Facility I.D. or location address of POTW:  |                       |
|    | <ul> <li>d. Does the discharge contain a substance, which, in the absence of a wastewater would be a hazardous waste under 40 CFR Part 261?</li> </ul> | discharge permit,  No |
| 3. | 3. For discharges to ground water only:  |                       |
|    | a. Groundwater classification of the site:   |                       |
|    | Present: Future:   |                       |
|    | b. Name of surface water body in watershed area:   |                       |
|    | Surface water classification of the above listed water body:   |                       |
|    | Present: Future:   |                       |

| Dis | charge Serial Number:   |
|-----|---|
| 4.  | Average Daily Flow (gpd):  Design Flow (gpd):  Date discharge began or will begin: / /  |
| 5.  | Is the discharge continuous?  |
| 6.  | For other than a continuous discharge (e.g., batch, intermittent, or seasonal discharges), indicate: Average number of hours per event of the discharge: Maximum number of hours per event of the discharge: The duration and frequency of the discharge:   |
| 7.  | Description of each specific activity or each process generating the discharge and identification of all types of waste generated by each process.  |
| 8.  | For domestic sewage treatment plants, list the location of all discharges including any plant bypasses, pumping station bypasses, and collection system overflows and bypasses. Indicate clearly if any such bypasses and/or overflows are part of a separate or a combined sewage collection system. |
|     | If additional sheets are necessary, please label and attach them to this sheet and enter a check mark.  |

| 9. Process and/or Treatment S                        | Substances Discharg   | ge Serial Number:   |
|--|---|---|
| Name of substances used in generating the wastewater | List of toxic or hazardous substances contained in process and/or treatment substance | List any available aquatic toxicity test results for process and/or treatment substance |
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| (Ques | Effluent Limitations and Conditions (Questions 10 & 11 need not be completed by domestic sewage treatment facilities, including POTWs)  Discharge Serial Number: |                             |       |             |                |  |  |  |  |
|-------|--|-----------------------------|-------|-------------|----------------|--|--|--|--|
| 10a.  | 10a. Is this discharge described by any discharge categories listed in Appendix A, "Primary Industry Categories" of RCSA Sections 22a-430-3 and 4?               |                             |       |             |                |  |  |  |  |
|       |  | Yes                         |       | No          |                |  |  |  |  |
| 10b.  | Are t  | here any tre                | atmen | t requireme | nts establishe | ed in RCSA Sect                                      | ion 22a-430-4(s)?  |  |  |
|       |  | Yes                         |       | No          |                |  |  |  |  |
| 11a.  | type   |                             |       |             |                |  | pretreatment standard established for this at to 301, 306, 307, 318, 405 of the Clean      |  |  |
|       |  | Yes                         |       | No          |                |  |  |  |  |
| -     | ischar   | •                           | •     |             |                | •  | ne following table by providing the name of<br>licable, that establishes the limitation or |  |  |
|       |  | ischarge ca<br>om state an  |       |             |                | Effluent<br>limitation or<br>condition:<br>yes or no | Name of subpart and appropriate subpart citation   |  |  |
|       | and St   | eel Manufac<br>a-430-4(s) R |       | 40 CFR Pa   | ırt 420,       | yes  | Acid Pickling; 40 CFR Part 420: subpart  |  |  |
|       |  |                             |       |             |                |  |  |  |  |
|       |  |                             |       |             |                |  |  |  |  |
|       |  |                             |       |             |                |  |  |  |  |
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|       |  |                             |       |             |                |  |  |  |  |

4 of 21

Rev. 08/07/00

| Effluent Limitations and Conditio  | ns (continued)                                    | Discharge Serial Number:   |   |  |  |  |  |  |
|--|---|--|---|--|--|--|--|--|
| 11b. Are any of the effluent limitations applicable to the discharge expressed in terms of production?   |   |  |   |  |  |  |  |  |
| ☐ Yes ☐ No   |   |  |   |  |  |  |  |  |
| If yes, complete the following table. For existing discharge, list an actual measurement of your average or maximum level of daily production. For new discharges, list an average or maximum projected daily production. (Indicate in the table whether the production figures given are average or maximum level.) Express the production in the terms and units used in the applicable discharge limitation. Attach additional sheets if necessary. |   |  |   |  |  |  |  |  |
| Name of Category and Subpart   |   |  |   |  |  |  |  |  |
| Example:<br>Iron and Steel Manufacturing;<br>Hydrochloric Acid Pickling  | 27,000 lbs of Stainless<br>steel strips (average) | Stainless steel strips are passed through solder flux baths in #1 Tinner | 2 |  |  |  |  |  |
|  |   |  |   |  |  |  |  |  |
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### **Attachment O: Discharge Information (continued)**

### Part B: Discharge Analysis

All applicants must complete Part B, Tables 1 through 4 for each discharge. Be sure to review the instructions; specifically, "Testing Requirements for All Discharge Categories", Schedule A in the instructions under Attachment O before completing this part. In addition, please note that for existing discharges previously licensed by DEP, identify the substances that were monitored in the existing permit by placing "PP" in the "Daily Composite or Grab Sample Results" column by the substance. For such substances, you need not repeat the analytical results in Tables 1 through 4, as long as such results are provided in Attachment E of the application.

|             | Projection   |                   | Actual wastewater                        |   | Waste             | ewater from other s           | imilar discharge     |
|-------------|--|-------------------|--|---|-------------------|-------------------------------|----------------------|
| info<br>non | applicants must provi<br>rmation needed to co<br>-contact cooling wate<br>llysis results for subst | omplet<br>er, hea | e columns 2 and 3,<br>t pump wastewaters | for each discharge<br>and blowdown fro        | e excep<br>om hea | ot the following: For         | r discharges of      |
| Dat         | e Sampled: / /   | 1                 |  | Table 1                                       | Disc              | charge Serial Nun             | nber:                |
|             | GENI   | ERAL              |  | 1<br>Daily Composi<br>or Grab Samp<br>Results |                   | 2<br>Number<br>of<br>Analyses | 3<br>EPA**<br>Method |
| 1.          | Biochemical Oxyge  | n Den             | nand (5Day)                              |   |                   |                               |                      |
| 2.          | Chemical Oxygen [  | Demar             | nd                                       |   |                   |                               |                      |
| 3.          | Oil and Grease, To   | tal*              |  |   |                   |                               |                      |
| 4.          | Oil and Grease, Hy   | droca             | bon Fraction*                            |   |                   |                               |                      |
| 5.          | Total Suspended S  | olids             |  |   |                   |                               |                      |
| 6.          | Ammonia (as Nitrog   | gen)              |  |   |                   |                               |                      |
| 7.          | Phosphorus (Total)   |                   |  |   |                   |                               |                      |
| 8.          | Nitrate  |                   |  |   |                   |                               |                      |
| 9.          | Nitrite  |                   |  |   |                   |                               |                      |
| 10.         | Total Kjeldahl Nitro   | gen               |  |   |                   |                               |                      |
| 11.         | Total Residual Chlo  | rine*             |  |   |                   |                               |                      |
| 12.         | Temperature (Winte   | er and            | Summer)*                                 |   |                   |                               |                      |
| 13.         | pH (minimum and r  | maxim             | um)*                                     |   |                   |                               |                      |
| 14.         | Copper, Total  |                   |  |   |                   |                               |                      |
| 15.         | Lead, Total  |                   |  |   |                   |                               |                      |
| 16          | Zinc Total   |                   |  |   |                   |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

All applicants must complete Table 2 for each discharge by placing an "X" in column 1, if applicable *and* by placing an "X" in column 2 or 3. If column 1 or 2 is marked for any substance, you *must* provide analysis results in column 4 for that substance and other information needed to complete columns 5 and 6 for that substance.

| Date Sampled: / /                  |  | Table 2                               |                         | arge Serial Nu                            | mber:                         |                      |
|------------------------------------|--|---------------------------------------|-------------------------|---|-------------------------------|----------------------|
| TOXIC METALS,<br>CYANIDES, PHENOLS | 1 Analysis Required by Schedule A - see Instructions | 2<br>Known or<br>Suspected<br>Present | 3<br>Believed<br>Absent | 4 Daily Composite or Grab Sample Results* | 5<br>Number<br>of<br>Analyses | 6<br>EPA**<br>Method |
| 1. Antimony, Total                 |  |                                       |                         |   |                               |                      |
| 2. Arsenic, Total                  |  |                                       |                         |   |                               |                      |
| 3. Beryllium, Total                |  |                                       |                         |   |                               |                      |
| 4. Cadmium, Total                  |  |                                       |                         |   |                               |                      |
| 5. Chromium, Total                 |  |                                       |                         |   |                               |                      |
| 6. Chromium,                       |  |                                       |                         |   |                               |                      |
| 7. Mercury, Total                  |  |                                       |                         |   |                               |                      |
| 8. Nickel, Total                   |  |                                       |                         |   |                               |                      |
| 9. Selenium, Total                 |  |                                       |                         |   |                               |                      |
| 10. Silver, Total                  |  |                                       |                         |   |                               |                      |
| 11. Thallium, Total                |  |                                       |                         |   |                               |                      |
| 12. Cyanide, Total*                |  |                                       |                         |   |                               |                      |
| 13. Cyanide,                       |  |                                       |                         |   |                               |                      |
| 14. Phenols, Total*                |  |                                       |                         |   |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

Part B: Discharge Analysis (continued)

| Date Sampled: / /                 | Table 2 (con   |           | narge Seri | ial Number:  |                               |                      |
|-----------------------------------|--|-----------|------------|--|-------------------------------|----------------------|
| VOLATILES*                        | 1<br>Analysis<br>Required<br>by<br>Schedule A -<br>see<br>Instructions | Suspected |            | 4<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 5<br>Number<br>of<br>Analyses | 6<br>EPA**<br>Method |
| 1. Acrolein                       |  |           |            |  |                               |                      |
| 2. Acrylonitrile                  |  |           |            |  |                               |                      |
| 3. Benzene                        |  |           |            |  |                               |                      |
| 4. Bromoform                      |  |           |            |  |                               |                      |
| 5. Carbon Tetrachloride           |  |           |            |  |                               |                      |
| 6. Chlorobenzene                  |  |           |            |  |                               |                      |
| 7. Chlorodibromomethane           |  |           |            |  |                               |                      |
| 8. Chloroethane                   |  |           |            |  |                               |                      |
| 9. 2-Chloroethylvinyl Ether       |  |           |            |  |                               |                      |
| 10. Chloroform                    |  |           |            |  |                               |                      |
| 11. Dichlorobromomethane          |  |           |            |  |                               |                      |
| 12. 1, 1-Dichloroethane           |  |           |            |  |                               |                      |
| 13. 1, 2-Dichloroethane           |  |           |            |  |                               |                      |
| 14. 1, 1-Dichloroethylene         |  |           |            |  |                               |                      |
| 15. 1, 2-Dichloropropane          |  |           |            |  |                               |                      |
| 16. 1, 3-Dichloropropylene        |  |           |            |  |                               |                      |
| 17. Ethylbenzene                  |  |           |            |  |                               |                      |
| 18. Methylbromide                 |  |           |            |  |                               |                      |
| 19. Methylchloride                |  |           |            |  |                               |                      |
| 20. Methylene Chloride            |  |           |            |  |                               |                      |
| 21. 1, 1, 2, 2,-Tetrachloroethane |  |           |            |  |                               |                      |
| 22. Tetrachloroethylene           |  |           |            |  |                               |                      |
| 23. Toluene                       |  |           |            |  |                               |                      |
| 24. 1, 2-Trans-Dichloroethylene   |  |           |            |  |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

 $<sup>^{\</sup>star\star} \ \text{For surface water discharges only, check the instructions for } \ \textit{required EPA methods of analyses}.$ 

Part B: Discharge Analysis (continued)

| Date Sampled: / /             | Table 2 (con   | tinued)              | narge Seri    | al Number:                                |                               |                      |
|-------------------------------|--|----------------------|---------------|---|-------------------------------|----------------------|
| VOLATILES*                    | 1<br>Analysis<br>Required<br>by<br>Schedule A -<br>see<br>Instructions | 2 Known or Suspected | 3<br>Believed | 4 Daily Composite or Grab Sample Results* | 5<br>Number<br>of<br>Analyses | 6<br>EPA**<br>Method |
| 25. 1, 1, 1-Trichloroethane   |  |                      |               |   |                               |                      |
| 26. 1, 1, 2- Trichloroethane  |  |                      |               |   |                               |                      |
| 27. Trichloroethylene         |  |                      |               |   |                               |                      |
| 28. Vinyl Chloride            |  |                      |               |   |                               |                      |
| GC/MS FRACTION ACID COMPOUNDS |  |                      |               |   |                               |                      |
| 1. 2-Chlorophenol             |  |                      |               |   |                               |                      |
| 2. 2, 4-Dichlorophenol        |  |                      |               |   |                               |                      |
| 3. 2, 4-Dimethylphenol        |  |                      |               |   |                               |                      |
| 4. 4, 6-Dinitro-O-Cresol      |  |                      |               |   |                               |                      |
| 5. 2, 4-Dinitrophenol         |  |                      |               |   |                               |                      |
| 6. 2-Nitrophenol              |  |                      |               |   |                               |                      |
| 7. 4-Nitrophenol              |  |                      |               |   |                               |                      |
| 8. P-Chloro-M-Cresol          |  |                      |               |   |                               |                      |
| 9. Pentachlorophenol          |  |                      |               |   |                               |                      |
| 10. Phenol                    |  |                      |               |   |                               |                      |
| 11. 2, 4, 6- Trichlorophenol  |  |                      |               |   |                               |                      |
| BASE NEUTRAL COMPOUNDS        |  |                      | T             |   |                               |                      |
| 1. Acenaphthene               |  |                      |               |   |                               |                      |
| 2. Acenaphthylene             |  |                      |               |   |                               |                      |
| 3. Anthracene                 |  |                      |               |   |                               |                      |
| 4. Benzidine                  |  |                      |               |   |                               |                      |
| 5. Benzo(a)anthracene         |  |                      |               |   |                               |                      |
| 6. Benzo(a)pyrene             |  |                      |               |   |                               |                      |
| 7. 3, 4-Benzo-fluoranthene    |  |                      |               |   |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

 $<sup>^{\</sup>star\star} \ \text{For surface water discharges only, check the instructions for } \ \textit{required} \ \text{EPA methods of analyses}.$ 

Part B: Discharge Analysis (continued)

| Date Sampled: / /                          | Table 2 (con   |                            | narge Seri    | al Number:   |   |                      |
|--|--|----------------------------|---------------|--|---|----------------------|
|  | 1<br>Analysis<br>Required<br>by<br>Schedule A -<br>see<br>Instructions | 2<br>Known or<br>Suspected | 3<br>Believed | 4<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 5 | 6<br>EPA**<br>Method |
| 8. Benzo(ghi)perylene                      |  |                            |               |  |   |                      |
| 9. Benzo(k) fluoranthene                   |  |                            |               |  |   |                      |
| 10. Bis(2-Chloroethoxy) Methane            |  |                            |               |  |   |                      |
| 11. Bis(2-Chloroethyl) Ether               |  |                            |               |  |   |                      |
| 12. Bis(2-Chloroisopropyl) Ether           |  |                            |               |  |   |                      |
| 13. Bis(2-Ethylhexyl) Phthalate            |  |                            |               |  |   |                      |
| 14. 4-Bromophenylphenyl Ether              |  |                            |               |  |   |                      |
| 15. Butylbenzyl Phthalate                  |  |                            |               |  |   |                      |
| 16. 2-Chloronaphthalene                    |  |                            |               |  |   |                      |
| 17. 4-Cholorophenylphenyl Ether            |  |                            |               |  |   |                      |
| 18. Chrysene                               |  |                            |               |  |   |                      |
| 19. Dibenzo(a, H)anthracene                |  |                            |               |  |   |                      |
| 20. 1, 2-Dichlorobenzene                   |  |                            |               |  |   |                      |
| 21. 1, 3-Dichlorobenzene                   |  |                            |               |  |   |                      |
| 22. 1, 4-Dichlorobenzene                   |  |                            |               |  |   |                      |
| 23. 3, 3-Dichlorobenzidine                 |  |                            |               |  |   |                      |
| 24. Diethyl phthalate                      |  |                            |               |  |   |                      |
| 25. Dimethyl phthalate                     |  |                            |               |  |   |                      |
| 26. Di-n-butyl phthalate                   |  |                            |               |  |   |                      |
| 27. 2, 4-Dinitrotoluene                    |  |                            |               |  |   |                      |
| 28. 2, 6-Dinitrotoluene                    |  |                            |               |  |   |                      |
| 29. Di-n-octyl phthalate                   |  |                            |               |  |   |                      |
| 30. 1, 2-Diphenylhydrazine (as Azobenzene) |  |                            |               |  |   |                      |
| 31. Fluoranthene                           |  |                            |               |  |   |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

Part B: Discharge Analysis (continued)

| Date | Sampled: / /              | Table 2 (con   | tinued)<br>Disch     | narge Seri    | al Number:   |   |                      |
|------|---------------------------|--|----------------------|---------------|--|---|----------------------|
|      | BASE NEUTRAL COMPOUNDS    | 1<br>Analysis<br>Required<br>by<br>Schedule A -<br>see<br>Instructions | 2 Known or Suspected | 3<br>Believed | 4<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 5 | 6<br>EPA**<br>Method |
| 32.  | Fluorene                  |  |                      |               |  |   |                      |
| 33.  | Hexachlorobenzene         |  |                      |               |  |   |                      |
| 34.  | Hexachlorobutadiene       |  |                      |               |  |   |                      |
| 35.  | Hexachlorocyclopentadiene |  |                      |               |  |   |                      |
| 36.  | Hexachloroethane          |  |                      |               |  |   |                      |
| 37.  | Indeno(1,2,3-cd) Pyrene   |  |                      |               |  |   |                      |
| 38.  | Isophorone                |  |                      |               |  |   |                      |
| 39.  | Naphthalene               |  |                      |               |  |   |                      |
| 40.  | Nitrobenzene              |  |                      |               |  |   |                      |
| 41.  | N-nitroso dimethylamine   |  |                      |               |  |   |                      |
| 42.  | N-Nitrosodi-n-Propylamine |  |                      |               |  |   |                      |
| 43.  | N-Nitrosodiphenylamine    |  |                      |               |  |   |                      |
| 44.  | Phenanthrene              |  |                      |               |  |   |                      |
| 45.  | Pyrene                    |  |                      |               |  |   |                      |
| 46.  | 1, 24-Trichlorobenzene    |  |                      |               |  |   |                      |
| PES  | TICIDES                   |  |                      |               |  | T |                      |
| 1.   | Aldrin                    |  |                      |               |  |   |                      |
| 2.   | Alpha - BHC               |  |                      |               |  |   |                      |
| 3.   | Beta - BHC                |  |                      |               |  |   |                      |
| 4.   | Gamma-BHC                 |  |                      |               |  |   |                      |
| 5.   | Delta-BHC                 |  |                      |               |  |   |                      |
| 6.   | Chlordane                 |  |                      |               |  |   |                      |
| 7.   | 4, 4-DDT                  |  |                      |               |  |   |                      |
| 8.   | 4, 4-DDE                  |  |                      |               |  |   |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

Part B: Discharge Analysis (continued)

| Table 2 (continued)  Date Sampled: / / Discharge Serial Number: |  |                                       |  |  |                               |                      |
|---|--|---------------------------------------|--|--|-------------------------------|----------------------|
| PESTICIDES  | 1<br>Analysis<br>Required<br>by<br>Schedule A -<br>see<br>Instructions | 2<br>Known or<br>Suspected<br>Present |  | 4<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 5<br>Number<br>of<br>Analyses | 6<br>EPA**<br>Method |
| 9. 4, 4-DDD   |  |                                       |  |  |                               |                      |
| 10. Dieldrin  |  |                                       |  |  |                               |                      |
| 11. Alpha-Endosulfan  |  |                                       |  |  |                               |                      |
| 12. Beta-Endosulfan   |  |                                       |  |  |                               |                      |
| 13. Endosulfan Sulfate  |  |                                       |  |  |                               |                      |
| 14. Endrin  |  |                                       |  |  |                               |                      |
| 15. Endrin Aldehyde   |  |                                       |  |  |                               |                      |
| 16. Heptachlor  |  |                                       |  |  |                               |                      |
| 17. Heptachlor Epoxide  |  |                                       |  |  |                               |                      |
| 18. PCB-1242  |  |                                       |  |  |                               |                      |
| 19. PCB-1254  |  |                                       |  |  |                               |                      |
| 20. PCB-1221  |  |                                       |  |  |                               |                      |
| 21. PCB-1232  |  |                                       |  |  |                               |                      |
| 22. PCB-1248  |  |                                       |  |  |                               |                      |
| 23. PCB-1260  |  |                                       |  |  |                               |                      |
| 24. PCB-1016  |  |                                       |  |  |                               |                      |
| 25. Toxaphene   |  |                                       |  |  |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

All applicants must complete Table 3 for each discharge by placing an "X" in either column 1 or 2. If column 1 is marked for any substance, you *must* provide analysis results for that substance in column 3 and other information needed to complete columns 4 and 5 for that substance.

| Date Sampled: / /          |                                  | Table 3                 | Discharge  | Serial Number:                |                      |
|----------------------------|----------------------------------|-------------------------|--|-------------------------------|----------------------|
| OTHER SUBSTANCES           | Known or<br>Suspected<br>Present | 2<br>Believed<br>Absent | 3<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 4<br>Number<br>of<br>Analyses | 5<br>EPA**<br>Method |
| 1. Bromide                 |                                  |                         |  |                               |                      |
| 2. Color                   |                                  |                         |  |                               |                      |
| 3. Fecal Coliform*         |                                  |                         |  |                               |                      |
| 4. Fluoride                |                                  |                         |  |                               |                      |
| 5. Nitrogen, Total Organic |                                  |                         |  |                               |                      |
| 6. Radioactivity           |                                  |                         |  |                               |                      |
| a. Alpha, Total            |                                  |                         |  |                               |                      |
| b. Beta, Total             |                                  |                         |  |                               |                      |
| c. Radium, Total           |                                  |                         |  |                               |                      |
| d. Radium, 226 Total       |                                  |                         |  |                               |                      |
| 7. Sulfate                 |                                  |                         |  |                               |                      |
| 8. Sulfide*                |                                  |                         |  |                               |                      |
| 9. Sulfite                 |                                  |                         |  |                               |                      |
| 10. Surfactants            |                                  |                         |  |                               |                      |
| 11. Aluminum, Total        |                                  |                         |  |                               |                      |
| 12. Barium, Total          |                                  |                         |  |                               |                      |
| 13. Boron, Total           |                                  |                         |  |                               |                      |
| 14. Cobalt, Total          |                                  |                         |  |                               |                      |
| 15. Iron, Total            |                                  |                         |  |                               |                      |
| 16. Magnesium, Total       |                                  |                         |  |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

Part B: Discharge Analysis (continued)

|  |                                  | Table 3 (contin         |  |                               |                      |  |  |  |
|--|----------------------------------|-------------------------|--|-------------------------------|----------------------|--|--|--|
| Date Sampled: / / Discharge Serial Number: |                                  |                         |  |                               |                      |  |  |  |
| OTHER SUBSTANCES                           | Known or<br>Suspected<br>Present | 2<br>Believed<br>Absent | 3<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 4<br>Number<br>of<br>Analyses | 5<br>EPA**<br>Method |  |  |  |
| 17. Molybdenum, Total                      |                                  |                         |  |                               |                      |  |  |  |
| 18. Manganese, Total                       |                                  |                         |  |                               |                      |  |  |  |
| 19. Tin, Total                             |                                  |                         |  |                               |                      |  |  |  |
| 20. Titanium, Total                        |                                  |                         |  |                               |                      |  |  |  |
| OTHER TOXIC AND HAZARDOUS SUBSTANCES       |                                  |                         |  |                               |                      |  |  |  |
| 1. Asbestos                                |                                  |                         |  |                               |                      |  |  |  |
| 2. Acetaldehyde                            |                                  |                         |  |                               |                      |  |  |  |
| 3. Allyl alcohol                           |                                  |                         |  |                               |                      |  |  |  |
| 4. Allyl chloride                          |                                  |                         |  |                               |                      |  |  |  |
| 5. Amyl acetate                            |                                  |                         |  |                               |                      |  |  |  |
| 6. Aniline                                 |                                  |                         |  |                               |                      |  |  |  |
| 7. Benzonitrile                            |                                  |                         |  |                               |                      |  |  |  |
| 8. Benzyl chloride                         |                                  |                         |  |                               |                      |  |  |  |
| 9. Butyl acetate                           |                                  |                         |  |                               |                      |  |  |  |
| 10. Butylamine                             |                                  |                         |  |                               |                      |  |  |  |
| 11. Captan                                 |                                  |                         |  |                               |                      |  |  |  |
| 12. Carbaryl                               |                                  |                         |  |                               |                      |  |  |  |
| 13. Carbofuran                             |                                  |                         |  |                               |                      |  |  |  |
| 14. Carbon disulfide                       |                                  |                         |  |                               |                      |  |  |  |
| 15. Chlorpyrifos                           |                                  |                         |  |                               |                      |  |  |  |
| 16. Coumaphos                              |                                  |                         |  |                               |                      |  |  |  |
| 17. Cresol                                 |                                  |                         |  |                               |                      |  |  |  |
| 18. Crotonaldehyde                         |                                  |                         |  |                               |                      |  |  |  |
| 19. Cyclohexane                            |                                  |                         |  |                               |                      |  |  |  |

14 of 21

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

 $<sup>^{\</sup>star\star} \ \text{For surface water discharges only, check the instructions for } \ \textit{required EPA methods of analyses}.$ 

Part B: Discharge Analysis (continued)

| Date Sampled: / /                          |                                       | Table 3 (continu        |  | e Serial Number:              |                      |
|--|---------------------------------------|-------------------------|--|-------------------------------|----------------------|
| OTHER TOXIC AND<br>HAZARDOUS<br>SUBSTANCES | 1<br>Known or<br>Suspected<br>Present | 2<br>Believed<br>Absent | 3<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 4<br>Number<br>of<br>Analyses | 5<br>EPA**<br>Method |
| 20. 2,4-Dichlorophenoxy (acetic acid)      |                                       |                         |  |                               |                      |
| 21. Diazinon                               |                                       |                         |  |                               |                      |
| 22. Dicamba                                |                                       |                         |  |                               |                      |
| 23. Dichlobenil                            |                                       |                         |  |                               |                      |
| 24. Dichlone                               |                                       |                         |  |                               |                      |
| 25. 2,2-Dichloro-<br>propionic acid        |                                       |                         |  |                               |                      |
| 26. Dichlorvos                             |                                       |                         |  |                               |                      |
| 27. Diethyl amine                          |                                       |                         |  |                               |                      |
| 28. Dimethyl amine                         |                                       |                         |  |                               |                      |
| 29. Dinitrobenzene                         |                                       |                         |  |                               |                      |
| 30. Diquat                                 |                                       |                         |  |                               |                      |
| 31. Disulfoton                             |                                       |                         |  |                               |                      |
| 32. Diuron                                 |                                       |                         |  |                               |                      |
| 33. Epichlorohydrin                        |                                       |                         |  |                               |                      |
| 34. Ethanolamine                           |                                       |                         |  |                               |                      |
| 35. Ethion                                 |                                       |                         |  |                               |                      |
| 36. Ethylene diamine                       |                                       |                         |  |                               |                      |
| 37. Ethylene dibromide                     |                                       |                         |  |                               |                      |
| 38. Formaldehyde                           |                                       |                         |  |                               |                      |
| 39. Furfural                               |                                       |                         |  |                               |                      |
| 40. Guthion                                |                                       |                         |  |                               |                      |
| 41. Isoprene                               |                                       |                         |  |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

 $<sup>^{\</sup>star\star} \ \text{For surface water discharges only, check the instructions for } \ \textit{required EPA methods of analyses}.$ 

Part B: Discharge Analysis (continued)

| Date Sam     | pled: / /                         |                                       | Table 3 (contin         |  | e Serial Number:              |                      |
|--------------|-----------------------------------|---------------------------------------|-------------------------|--|-------------------------------|----------------------|
| OTHER<br>HAZ | R TOXIC AND<br>ZARDOUS<br>STANCES | 1<br>Known or<br>Suspected<br>Present | 2<br>Believed<br>Absent | 3<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 4<br>Number<br>of<br>Analyses | 5<br>EPA**<br>Method |
| 42. Isopro   | ppanolamine                       |                                       |                         |  |                               |                      |
| 43. Keltha   | ane                               |                                       |                         |  |                               |                      |
| 44. Kepor    | ne                                |                                       |                         |  |                               |                      |
| 45. Malat    | hion                              |                                       |                         |  |                               |                      |
| 46. Merca    | aptodimethur                      |                                       |                         |  |                               |                      |
| 47. Metho    | oxychlor                          |                                       |                         |  |                               |                      |
| 48. Methy    | /l mercaptan                      |                                       |                         |  |                               |                      |
| 49. Methy    | yl methacrylate                   |                                       |                         |  |                               |                      |
| 50. Methy    | /l parathion                      |                                       |                         |  |                               |                      |
| 51. Mevin    | phos                              |                                       |                         |  |                               |                      |
| 52. Mexa     | carbate                           |                                       |                         |  |                               |                      |
| 53. Mono     | ethyl amine                       |                                       |                         |  |                               |                      |
| 54. Mono     | methyl amine                      |                                       |                         |  |                               |                      |
| 55. Naled    |                                   |                                       |                         |  |                               |                      |
| 56. Napth    | nenic acid                        |                                       |                         |  |                               |                      |
| 57. Nitroto  | oluene                            |                                       |                         |  |                               |                      |
| 58. Parat    | hion                              |                                       |                         |  |                               |                      |
| 59. Pheno    | olsulfanate                       |                                       |                         |  |                               |                      |
| 60. Phos     | gene                              |                                       |                         |  |                               |                      |
| 61. Propa    | argite                            |                                       |                         |  |                               |                      |
| 62. Propy    | lene oxide                        |                                       |                         |  |                               |                      |
| 63. Pyretl   | hrins                             |                                       |                         |  |                               |                      |
| 64. Quinc    | oline                             |                                       |                         |  |                               |                      |
| 65. Reso     | rcinol                            |                                       |                         |  |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

 $<sup>^{\</sup>star\star} \ \text{For surface water discharges only, check the instructions for } \ \textit{required EPA methods of analyses}.$ 

Part B: Discharge Analysis (continued)

| Dat | e Sampled: / /  |                                       | Table 3 (contin         |  | e Serial Number:              |                      |
|-----|---|---------------------------------------|-------------------------|--|-------------------------------|----------------------|
|     | OTHER TOXIC AND<br>HAZARDOUS<br>SUBSTANCES                    | 1<br>Known or<br>Suspected<br>Present | 2<br>Believed<br>Absent | 3<br>Daily<br>Composite<br>or Grab<br>Sample<br>Results* | 4<br>Number<br>of<br>Analyses | 5<br>EPA**<br>Method |
| 66. | Strontium   |                                       |                         |  |                               |                      |
| 67. | Strychnine  |                                       |                         |  |                               |                      |
| 68. | Styrene   |                                       |                         |  |                               |                      |
| 69. | 2, 4, 5-T (2, 4, 5-<br>Trichlorophenoxy<br>acetic acid)       |                                       |                         |  |                               |                      |
| 70. | TDE (Tetrachloro-<br>diphenylethane)                          |                                       |                         |  |                               |                      |
| 71. | 2, 4, 5-TP[2-(2, 4,5-<br>Trichlorophenoxy)<br>propanoic acid] |                                       |                         |  |                               |                      |
| 72. | Trichlorofan  |                                       |                         |  |                               |                      |
| 73. | Triethylamine   |                                       |                         |  |                               |                      |
| 74. | Trimethylamine  |                                       |                         |  |                               |                      |
| 75. | Uranium   |                                       |                         |  |                               |                      |
| 76. | Vanadium  |                                       |                         |  |                               |                      |
| 77. | Vinyl acetate   |                                       |                         |  |                               |                      |
| 78. | Xylene  |                                       |                         |  |                               |                      |
| 79. | Xylenol   |                                       |                         |  |                               |                      |
| 80. | Zirconium   |                                       |                         |  |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for *required* EPA methods of analyses.

All applicants must complete Table 4 for each discharge, by placing an "X" in either column 1 or 2 for the substances numbered 1-6. If column 1 is marked for any substance, you *must* provide analysis results for that substance and any other information needed to complete columns 3 through 5 for that substance.

| Date Sampled: / /  |                                       | Table 4                 | Discharge Seri  | al Number:                             |                      |
|--|---------------------------------------|-------------------------|---|--|----------------------|
| SUBSTANCES   | 1<br>Known or<br>Suspected<br>Present | 2<br>Believed<br>Absent | 3<br>Daily<br>Composite or<br>Grab Sample<br>Results* | 4<br>Daily<br>Number<br>of<br>Analyses | 5<br>EPA**<br>Method |
| 1. 2, 4,5-trichlorophenoxy acetic acid (2, 4, 5,-T)                          |                                       |                         |   |  |                      |
| 2. 2-(2, 4, 5-trichlorophenoxy) propanoic acid (Silvex, 2, 4, 5,-TP)         |                                       |                         |   |  |                      |
| 3. 2-(2, 4 ,5-trichlorophenoxy)<br>ethyl, 2, 2-dichloropropionate<br>(Erbon) |                                       |                         |   |  |                      |
| 4. 0, 0-dimethyl-0-(2, 4, 5-<br>trichlorophenyl) phosphorothioate (Ronnel)   |                                       |                         |   |  |                      |
| 5. 2, 4, 5-trichlorophenol (TCP)   |                                       |                         |   |  |                      |
| 6. hexachlorophene (HCP)   |                                       |                         |   |  |                      |

#### In addition, if:

- 1) your facility uses or manufactures one of the substances listed above as items 1-6 or knows or has reason to believe or can reasonably ascertain that one of those substances may be present in the discharge; or
- 2) your facility has a discharge resulting from a process regulated under 40 CFR Part 430 Pulp, Paper, and Paperboard Point Source Category; or
- 3) you know or have reason to believe or can reasonably ascertain that 2,3,7,8 Tetrachlorodibenzo-p-dioxin (TCDD) may be present in the discharge;

you must also provide the analysis results for the dioxin and furan substances numbered 7 through 27, on the following page, using "EPA Method 1613: Tetra- through Octa- Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS".

18 of 21

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.

<sup>\*\*</sup> For surface water discharges only, check the instructions for required EPA methods of analyses.

Part B: Discharge Analysis (continued)

| Table 4 (c   | ontinued)<br>Discharge Serial N         | lumber:                       |                      |
|--|---|-------------------------------|----------------------|
| SUBSTANCES   | 1<br>Daily Composite<br>Sample Results* | 2<br>Number<br>of<br>Analyses | 3<br>EPA**<br>Method |
| 7. 2,3,7,8-TCDD (Tetrachlorodibenzo-p-dioxin)      |   |                               |                      |
| 8. Total - TCDD                                    |   |                               |                      |
| 9. 2,3,7,8-TCDF (Tetrachlorodibenzofuran)          |   |                               |                      |
| 10. Total - TCDF                                   |   |                               |                      |
| 11. 1,2,3,7,8-PeCDD (Pentachlorodibenzo-p-dioxin)  |   |                               |                      |
| 12. Total - PeCDD                                  |   |                               |                      |
| 13. 1,2,3,7,8-PeCDF (Pentachlorodibenzofuran)      |   |                               |                      |
| 14. 2,3,4,7,8-PeCDF                                |   |                               |                      |
| 15. Total - PeCDF                                  |   |                               |                      |
| 16. 1,2,3,4,7,8-HxCDD (Hexachlorodibenzo-p-dioxin) |   |                               |                      |
| 17. 1,2,3,6,7,8-HxCDD                              |   |                               |                      |
| 18. 1,2,3,7,8,9-HxCDD                              |   |                               |                      |
| 19. Total - HxCDD                                  |   |                               |                      |
| 20. 1,2,3,6,7,8-HxCDF (Hexachlorodibenzofuran)     |   |                               |                      |
| 21. 1,2,3,7,8,9-HxCDF                              |   |                               |                      |
| 22. Total - HxCDF                                  |   |                               |                      |
| 23. 1,2,3,4,6,7,8-HpCDF (Heptachlorodibenzofuran)  |   |                               |                      |
| 24. 1,2,3,4,7,8,9-HpCDF                            |   |                               |                      |
| 25. Total - HpCDF                                  |   |                               |                      |
| 26. OCDD (Optachlorodibenzo-p-dioxin)              |   |                               |                      |
| 27. OCDF (Hexachlorodibenzofuran)                  |   |                               |                      |

<sup>\*</sup> Check the instructions under this part for the required method of sample collection.
\*\* For surface water discharges only, check the instructions for *required* EPA methods of analyses.

If you know or have reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on any water receiving the discharge within the last three years, or for discharges previously licensed by DEP, since the issuance of such license, complete Table 5. Reproduce and complete Table 5 for each permit that you are applying for. (see Instructions)

| Table 5: Bio          | ological To | xicity Test    | ing Data     |         | Existing Permi         | t Number: |         |                     |
|-----------------------|-------------|----------------|--------------|---------|------------------------|-----------|---------|---------------------|
| Discharge<br>Serial # | Date        | Test<br>Method | Species<br>1 | Results | Comparison<br>to Limit | Species 2 | Results | Comparison to Limit |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |
|                       | / /         |                |              |         |                        |           |         |                     |

#### **Table 6: Discharge Toxicity Evaluation**

**All Discharges** 

- 1. Except as provided below, all applicants for permits to discharge to a surface waterbody (i.e., for new and existing discharges) must perform a Discharge Toxicity Evaluation (DTE) in accordance with Section 22a-430-4(c)(21)(B) RCSA and submit the results of the DTE as Attachment O, Table 6.
- 2. Exceptions: A DTE need not be performed or submitted with this application if:
  - a. this application for a permit is to discharge sewage from a POTW; or
  - b. a DTE covering all discharges to surface waters at the site has been previously approved by DEP; or
  - c. the applicant has been specifically exempted from submission of a DTE for the discharge(s), in writing by DEP, in accordance with Section 22a-430-4(c)(21)(C), prior to submittal of this application. (see instructions)
- 3. For discharges to a POTW, a DTE may be required depending on the nature of the discharge. In this case, you will be notified by DEP after submitting your application.

If any of the analyses reported in Tables 1 through 6 of this application were performed by a contract laboratory or consulting firm, list the name, address and telephone number of the laboratory or firm and the type of analyses performed.

| Table 7: Contract Labo | Table 7: Contract Laboratory Identification |                                |                               |  |  |  |  |
|------------------------|---|--------------------------------|-------------------------------|--|--|--|--|
| Name                   | Address                                     | Telephone<br>(Area Code & No.) | Substances Analyzed<br>(List) |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |
|                        |   |                                |                               |  |  |  |  |